

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE OF PAGES 1   9				
2. AMENDMENT/MODIFICATION NO. A001		3. EFFECTIVE DATE 09/10/2002		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)			
6. ISSUED BY U.S. DOT/RSPA/Volpe Center 55 Broadway Cambridge MA 02142		CODE DTS-852		7. ADMINISTERED BY (If other than Item 6) U.S. DOT/RSPA/Volpe Center 55 Broadway Cambridge MA 02142		CODE DTS-852			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, country, State and ZIP Code)				(X)			9A. AMENDMENT OF SOLICITATION NO.		
				X			DTRS57-02-Q-80143		
							9B. DATED (SEE ITEM 11) 08/26/2002		
							10A. MODIFICATION OF CONTRACT/ORDER NO.		
							10B. DATED (SEE ITEM 13)		
CODE		FACILITY CODE							
11. THIS ITEM ONLY APPLIES TO AMENDMENT OF SOLICITATIONS									
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and the date specified for receipt of Offers <input checked="" type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment number. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.									
12. ACCOUNTING AND APPROPRIATION DATA (If required)									
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.									
(X)		A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.							
		B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103 (b).							
		C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF :							
		D. OTHER (Specify type of modification and authority)							
E. IMPORTANT : Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.									
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)									
1. This request for Quote (RFQ) is amended as follows:									
A. To include the attached revised Statement of Work									
B. To extend the due date to September 17, 2002									
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.									
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)					
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED			
(Signature of the person authorized to sign)				BY (Signature of the person authorized to sign)					
NSN 7540-01-152-8070 PREVIOUS EDITION UNUSABLE				30-105		STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR(48 CFR) 53.243			

## **Purchase Specifications for Audio-Visual Upgrades to Volpe Center Room 1-345A, (Rev. 9/9/02)**

**Overview:** Room 1-345A will be a moderate size (17' x 19'; 323 sq. ft.) conference room, currently configured with a 3-tube CRT projector and various computer and audio-visual sources. The proposed upgrades will replace the projector and some other equipment, while incorporating some existing equipment into a modern, flexible and easy to use system. Equipment will be housed in a rack-based console. The projectors (LCD and overhead ["vu-graph"]) and speakerphone will be portable and will be used from the conference table on an as-needed basis. Connections for projector, etc., will be fed from the equipment rack location, down the wall and under the floor via a finished 1.5" hole in the floor (provided by Volpe Center) to a custom connection panel on the conference table. LAN, telephone, and electrical power will also be fed to the custom panel on the table via a separate finished 1.5" hole in the floor (provided by Volpe Center).

### **Additional equipment to be purchased separately and to be integrated into new installation:**

- Dell Multimedia Computer w/ Windows XP
- Epson Networkable Inkjet Printer

**Important Note:** Items specified below as "Examples" are provided to exemplify equipment that meets our specifications. Vendors may substitute other brands or models as long as they are equivalent and meet the same requirements.

### **New Equipment:**

<b><u>QTY</u></b>	<b><u>Description</u></b>
<b>1</b>	<b>Portable Multimedia LCD Projector/Document Camera</b> <i>Primary Function:</i> Front projection of various video sources, including computer and high resolution workstations (up to and including S-XGA), component (from DVD), and composite and S-video (from VCR and demodulated RF sources); also has capability for uses as a document camera; to be used on conference table. <i>Minimum specifications:</i> <ul style="list-style-type: none"><li>O True XGA (1024x768) native resolution</li><li>O 1000 ANSI Lumens</li><li>O Composite and S-Video Inputs</li><li>O Multiple Computer Inputs</li><li>O Built-in document camera</li><li>O Portable and easy to set up</li><li>O Remote control (to serve as main control system)</li><li>O 3 Year Warranty, parts and labor; 90 days on lamp</li></ul> <b>Example: Toshiba TLP-781 (with Document Camera)</b>
<b>1</b>	<b>Spare Lamp for above projector</b>
<b>1</b>	<b>Front Projection Electric Screen, 70"x70", Matte White (wall-mounted)</b> <b>Example: Dalite Cosmopolitan Matte White, 70" x 70"</b>
<b>1</b>	<b>Electronic Whiteboard (wall-mounted)</b> <i>Minimum Specifications:</i> <ul style="list-style-type: none"><li>O Built-in Printer</li><li>O 72" Diagonal image</li></ul> <b>Example: Plus BF030W</b>

- 2 DVD Players**  
*Minimum Specifications:*  
 O Progressive Scan (480p/I switchable)  
 O Able to read DVD Video, DVD-R, VideoCD, CD-R, CD-RW  
 O S-Video output  
 O Hi-Fi Audio  
  
**Example: Panasonic DVD-RP62K (with one rackmount kit)**  
**(Note: one will be rackmounted, one will be on A-V Cart with TV/Monitor)**
- 2 Videocassette Recorders**  
*Minimum Specifications:*  
 O S-VHS Record/Playback, 3-speed  
 O Hi-Fi Audio  
  
**Example: Panasonic PV-VS4821 (with one rackmount kit)**  
**(Note: one will be rackmounted, one will be on A-V Cart with TV/Monitor)**
- 1 Television/Monitor**  
*Primary Function:* For use with VCR and DVD player on portable A-V Cart  
*Minimum Specifications:*  
 O 27" picture tube; comb filter  
 O Multiple A-V inputs  
 O ADA-compliant (built-in closed captioning)  
 O Compatible with DVD and VCR remote controls  
  
**Example: Panasonic CT-27G5**
- 1 Conference Telephone**  
*Primary Function:* Group telephone conferences  
*Minimum Specifications:*  
 O Full duplex voice communication  
 O One external microphone in addition to internal microphone  
 O Capability for adding one more microphone for larger groups  
  
**Example: Polycom Soundstation EX with one extra microphone**
- 2 pr. Ceiling Flush-Mounted Speakers**  
*Minimum Specifications:*  
 O 100Hz-16,000Hz  
 O Round, flush-mounted, white  
  
**Example: Cambridge Soundworks Ambiance 60 (4 speakers total)**
- 1 Stereo Receiver**  
*Primary Function:* Amplify various audio sources  
*Minimum Specifications:*  
 O Dolby Digital and DTS decoders built-in  
 O 100 watts x 2 min. RMS, both channels driven into 8 ohms from 40Hz to 20kHz with no more than 0.8% THD; 100 watts x 5 min. RMS, into 8 ohms, 1kHz, 0.8% THD  
 • LCD Multi-Brand A/V Remote Control (VCR/TV/CATV/DBS)  
 • 15 AM and 30 FM station memory  
 • AV COMPU LINK provides simple one touch operation between your JVC audio and video components. For example, pop a pre-recorded VHS tape into the VCR and it will automatically power up your

receiver and your television and then turn them each to the proper inputs.

- 3 Composite Video Inputs, 3 S-Video Inputs
- 2 Composite Video Outputs, 2 S-Video Outputs

**Example: JVC RX-7010 (with rackmount kit)**

**1 Closed Caption Decoder**

*Primary Function:* Decode TV captions for hearing impaired

*Minimum Specifications:*

- Decode all currently used captioning signals
- To be placed in-line from VCR output to projector video

**Example: MyCap Closed Caption Decoder**

**1 Custom A-V Input/Output Panel**

*Primary Function:* Inputs and outputs to feed A-V projector and audio system

*Minimum Specifications:*

- **To be mounted into center of 8 ft. round conference table (supplied by Volpe Center, with hole for mounting cable panel to be cut to spec by Volpe Center or a furniture contractor)**
- 1 Male HD-15 cable (output from in-room computer in console for input into table-top LCD projector)
- 1 RCA Composite video cable (output from A-V receiver for input into table-top LCD projector)
- 1 S-Video cable (output from A-V receiver for input into table-top LCD projector)
- 2x110 Volt A.C. outlets
- 2x LAN jacks
- 1 Telephone jack
- NOTE: Normally, the table-top LCD projector will be used to project images from the console-mounted computer, VCR, or DVD player. When projection of a table-top laptop computer is needed, it will be connected directly to the table-top LCD projector via additional cables (to be supplied by Volpe Center).

**Example: Extron Cable Cubby, black finish**

**1 Overhead Transparency Projector**

*Primary Function:* Project overhead transparencies on screen

*Minimum Specifications:*

- 4000 lumens
- Two lense settings: Triplet and wide-angle
- Economy switch
- Lifetime warranty

**Example: Dukane SF-4030**

**1 Wireless Mouse and Keyboard**

*Primary Function:* Computer control from the conference table

*Minimum Specifications:*

- RF interface at least 100 ft. w/o interference and w/o line-of-sight limitations
- Mouse works “in-air” for presentations w/o need for tracking surface
- Compatible with in-room computer
- USB connection

**Example: Gyration Gyromouse Presenter Wireless Mouse and Keyboard**

- 1                   **Computer Video Distribution Amplifier**  
                    *Primary Function:* Sends in-room computer video to local monitor and projector  
                    *Minimum Specifications:*  
                        O One input, two outputs (HD-15)  
                        O VGA through UXGA compatibility  
                    *Example:* **Extron P/2 DA2+**
- 1                   **Workstation Console with Single Equipment Rack**  
                    *Primary Function:* To hold key presentation equipment, including computer, with ergonomically comfortable work surface  
                    *Minimum Specifications:*  
                        O 60" x 29" desk-height work surface  
                        O Single 14U 19" equipment rack below work surface  
                        O Black sides and black "granite" work surface  
                    *Example:* **Winsted E4727**
- 1                   **Audiovisual/TV Cart**  
                    *Primary Function:* Safe, sturdy support and mobility for 27" TV, VCR & DVD  
                    *Minimum Specifications:*  
                        O 54" High with two shelves  
                        O Wide body design, rated for carrying 27" TV/Monitor  
                        O 3-prong electrical connections with extension cord  
                        O 4" swivel casters (2 lockable casters)  
                    *Example:* **Bretford BB54-E4**
- 1                   **Miscellaneous Cables, Connectors, and Fittings for Installation and Integration**
- 1                   **Contractor will handle all engineering, programming, and installation of above items as a new installation, integrated with listed A-V components and computer that have already been purchased for the installation. Contractor will also provide on-site instruction in system use, as well as full diagrams and documentation of system design, and manufacturer's user manuals; and 1 year warranty and service on the installed system. Volpe's on-site contractors will mount projector and whiteboard; install in-wall, in-ceiling, and in-floor cabling and electricals.**

*Installation acceptance will be subject to proof of meeting normal performance expectations of all audio-visual functions, as well as provision of professional staff instruction, drawings, manuals, and written warranties.*

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**Purchase Specifications for Audio-Visual Upgrades to Volpe Center Room 1-345B (Rev. 9/9/02)**

**Overview:** Room 1-345B will be a moderate size (1-345B = 14' x 19'; 266 sq. ft.) conference room, currently without any significant audio-visual sources. The proposed upgrades will create a modern, flexible and easy to use system. The proposed upgrades will add new equipment and incorporate some existing equipment into a modern, flexible and easy to use system. Equipment will be housed in a rack-based console. The LCD projector will be ceiling-mounted, while the overhead (vu-graph) projector and speakerphone will be portable and will be used from the conference table on an as-needed basis. Connections for the projector and speakers will be fed from the equipment rack location up the wall and through the ceiling to the projector and speakers. Connections for equipment to be used on the conference table (laptop computers, speakerphone) will be fed from the equipment rack location down the wall and under the floor to two, flush-mounted custom connection panels on the conference table via a finished 1.5" hole in the floor (provided by Volpe Center). LAN, telephone, and electrical power will also be fed to the two custom panels on the table through a separate finished 1.5" hole in the floor (provided by Volpe Center).

**Equipment to be retained from current installation and integrated into new installation:**

- Polycom Soundstation
- Apollo Overhead (Vu-graph) Project

**Additional equipment to be purchased separately and to be integrated into new installation:**

- Dell Multimedia Computer with Windows XP
- Epson Networkable Inkjet Printer

**Important Note:** Items specified below as "**Examples**" are provided to exemplify equipment that meets our specifications. Vendors may substitute other brands or models as long as they are equivalent and meet the same requirements.

**New Equipment:**

<b><u>QTY</u></b>	<b><u>Description</u></b>
<b>1</b>	<b>Portable Multimedia LCD Projector</b> <i>Primary Function:</i> Front projection of various video sources, including computer and high resolution workstations (up to and including S-XGA), component (from DVD), and composite and S-video (from VCR and demodulated RF sources); to be mounted in ceiling. <i>Minimum specifications:</i> <ul style="list-style-type: none"><li>○ True XGA (1024x768) native resolution</li><li>○ 3500 ANSI Lumens</li><li>○ Composite and S-Video Inputs</li><li>○ Multiple Computer Inputs</li><li>○ Portable and easy to set up</li><li>○ Remote control (to serve as main control system)</li><li>○ 3 Year Warranty, parts and labor; 90 days on lamp</li></ul> <i>Example: Sanyo XP-45</i>
<b>1</b>	<b>Spare Lamp for above projector</b>
<b>1</b>	<b>Ceiling mount for above projector (including mounting plate &amp; column)</b>
<b>1</b>	<b>Front Projection Electric Screen, 84"x 84", Matte White, wall-mounted</b> <i>Example: Dalite Cosmopolitan Electrol, Matte White</i>

- 1                   **Electronic Whiteboard**  
                  *Minimum Specifications:*  
                  O Built-in Printer  
                  O 72" Diagonal image  
                  **Example: Plus BF030W**
- 1                   **DVD Player**  
                  *Minimum Specifications:*  
                  O Progressive Scan (480p/I switchable)  
                  O Able to read DVD Video, DVD-R, VideoCD, CD-R, CD-RW  
                  O S-Video output  
                  O Hi-Fi Audio  
  
                  **Example: Panasonic DVD-RP62K (with one rackmount kit)**
- 1                   **Videocassette Recorder**  
                  *Minimum Specifications:*  
                  O S-VHS Record/Playback, 3-speed  
                  O Hi-Fi Audio  
                  **Example: Panasonic PV-VS4821 (with rackmount kit)**
- 2 pr.               **Ceiling Flush-Mounted Speakers**  
                  *Minimum Specifications:*  
                  O 100Hz-16,000Hz  
                  O Round, flush-mounted, white  
                  **Example: Cambridge Soundworks Ambiance 60 (4 speakers total)**
- 1                   **Stereo Receiver**  
                  *Primary Function:* Amplify various audio sources  
                  *Minimum Specifications:*  
                  O Dolby Digital and DTS decoders built-in  
                  O 100 watts x 2 min. RMS, both channels driven into 8 ohms from 40Hz to 20kHz with no more than 0.8% THD; 100 watts x 5 min. RMS, into 8 ohms, 1kHz, 0.8% THD  
  
                  • LCD Multi-Brand A/V Remote Control (VCR/TV/CATV/DBS)  
                  • 15 AM and 30 FM station memory  
                  • AV COMPU LINK provides simple one touch operation between your JVC audio and video components. For example, pop a pre-recorded VHS tape into the VCR and it will automatically power up your receiver and your television and then turn them each to the proper inputs.  
                  • 3 Composite Video Inputs, 3 S-Video Inputs  
                  • 2 Composite Video Outputs, 2 S-Video Outputs  
  
                  **Example: JVC RX-7010 (with rackmount kit)**
- 1                   **Closed Caption Decoder**  
                  *Primary Function:* Decode TV captions for hearing impaired  
                  *Minimum Specifications:*  
                  O Decode all currently used captioning signals  
                  O To be placed in-line from VCR output to projector video  
                  **Example: MyCap Closed Caption Decoder**

2

### **Custom A-V Input/Output Cable Panels**

**Primary Function:** Inputs to feed A-V projector and audio system from table-top laptop computers

**Minimum Specifications:**

**O Both to be flush mounted into opposite ends (approx. 30" from ends) of 10' long conference table (supplied by Volpe Center, with holes for mounting cable panels to be cut to spec by Volpe Center)**

- 1 6' male HD-15 cable (input from table-top laptop computer to ceiling-mounted LCD projector; to be selected via A-B switcher and projector's remote control)
- 1 6' male 3.5" stereo-mini cable (audio input from table-top laptop computer to A/V receiver; to be selected via A-B Switcher and A/V receiver remote control)
- 2x110 Volt A.C. outlets
- 2x LAN jacks
- 1 Telephone jack
- NOTE: No other A-V inputs are to be provided.

**Example: Extron Cable Cubby, black finish**

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### **A/B Computer Video and Audio Switcher**

**Primary Function:** Selects laptop computer video and audio (from tabletop cable panels) to projector (for video) and A-V receiver (for audio)

**Minimum Specifications:**

- O Two HD-15 inputs, two independently buffered HD-15 outputs
- O Two unbalanced (stereo 3.5" mini) audio inputs, two balanced or unbalanced audio outputs
- O VGA through UXGA compatibility

**Example: Extron SW2 VGA DA2 A**

1

### **Workstation Console with Single Equipment Rack**

**Primary Function:** To hold key presentation equipment, including computer, with ergonomically comfortable work surface

**Minimum Specifications:**

- O 60" x 29" desk-height work surface
- O Single 14U 19" equipment rack below work surface
- O Black sides and black "granite" work surface

**Example: Winsted E4727**

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### **Wireless Mouse and Keyboard**

**Primary Function:** Computer control from the conference table

**Minimum Specifications:**

- O RF interface at least 100 ft. w/o interference and w/o line-of-sight limitations
- O Mouse works "in-air" for presentations w/o need for tracking surface
- O Compatible with in-room computer
- O USB connection

**Example: Gyration Gyromouse Presenter Wireless Mouse and Keyboard**

1

### **Computer Video Distribution Amplifier**

**Primary Function:** Sends in-room computer video to local monitor and projector

**Minimum Specifications:**

- O One input, two outputs (HD-15)
- O VGA through UXGA compatibility

**Example: Extron P/2 DA2+**



- 1                    Miscellaneous Cables, Connectors, and Fittings for Installation and Integration**
- 1                    Contractor will handle all engineering, programming, and installation of above items as a new installation, integrated with listed A-V components and computer that have already been purchased for the installation. Contractor will also provide on-site instruction in system use, as well as full diagrams and documentation of system design, and manufacturer's user manuals; and 1 year warranty and service on the installed system. *Volpe's on-site contractors will mount projector and whiteboard; install in-wall, in-ceiling, and in-floor cabling and electricals.***

*Installation acceptance will be subject to proof of meeting normal performance expectations of all audio-visual functions, as well as provision of professional staff instruction, drawings, manuals, and written warranties.*

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